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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/675,378	09/30/2003	David Bailey		6853

7590 04/05/2006
ARTHUR W. FISHER, III
Suite 316
5553 West Waters Avenue
Tampa, FL 33634

EXAMINER

KAPLAN, HAL IRA

ART UNIT PAPER NUMBER

2836

DATE MAILED: 04/05/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/675,378

Applicant(s)

BAILEY, DAVID

Examiner

Hal I. Kaplan

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 September 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☒ Claim(s) 1 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 September 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Specification

1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

2. The disclosure is objected to because of the following informalities:

Page 2, line 2 contains the word "f". It appears this should be "Of". Page 2, line 11 contains the phrase "mounted the bedroom cabinets". It appears this should read "mounted behind the bedroom cabinets". Page 2, line 12 contains the phrase "voltage and often results". It appears this should read "voltage often results". Page 2, lines 21 and 23 contain the word "do". It appears this should be "does". Page 5, line 2 contains the phrase "fault source the". It appears this should read "fault source. The". Page 5, line 5 contains the phrase "too small of". It appears this should read "too small". Page 11, line 5 contains the phrase "arrangement close". It appears this should read "arrangement will close". Page 12, line 6 contains the phrase "A/Cs, press". It appears this should read "A/Cs, the operator can press". Page 12, line 15 contains the phrase

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"one phase less". It appears this should read "one phase, less". Page 12, line 16 contains the word "simultaneouslyand". It appears this should be "simultaneously, and".

Page 13, line 11 contains the abbreviation "RVC". This should be written out before being used as an abbreviation. Page 14, line 2 contains the phrase "relay 24 and to". It appears this should read "relay 24 coupled to". Page 14, line 10 contains the phrase "surge suppressors, 34, 36, and 38". It appears this should read "surge suppressors 32, 34, and 36". Page 14, line 12 contains the word "consol". It appears this should be "console". Page 15, line 1 contains the abbreviation "EMI". This should be written out before being used as an abbreviation. Page 15, line 5 contains the phrase "about +12V_{dc}". It appears this should read "about +12Vdc". Page 15, line 10 contains the abbreviation "SPI". This should be written out before being used as an abbreviation. Page 6, line 4 contains the phrase "the network". It appears this should read "to network". Page 16, line 23 contains the word "LIA". It appears this should be "L1A". Page 17, line 1 contains the word "scale". It appears this should be "scales". Page 17, line 8 contains the phrase "frequency is computed". It appears this should read "frequency are computed". Page 17, line 11 contains the word "stored". It appears this should be "stores the results". Page 17, line 16 contains the word "detector". It appears this should be "detectors". Page 17, line 17 contains the word "feed". It appears this should be "fed".

Page 18, line 5 contains the phrase "ground, extremely". It appears this should read "ground, or extremely". Page 18, line 8 contains the phrase "36, ground to the". It appears this should read "36, and ground is connected to the". Page 18, line 15

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contains the phrase "DC contactors coils". It appears this should read "DC coils". Page 18, line 17 contains the phrase "couple together to form the coach". It appears this should read "coupled together and to the coach". Page 19, line 1 contains the phrase "provide protection for". It appears this should be "provide". Page 19, line 5 contains the word "monitoring". It appears this should be "monitoring of". Page 19, line 15 contains the word "malfunctions". It appears this should be "malfunction". Page 19, lines 15-16 contain the phrase "would immediately deactivates". It appears this should read "immediately deactivates". Page 19, line 22 contains the phrase "18 or that voltage". It appears this should read "18 that voltage". Page 20, lines 1-2 contain the phrase "malfunctioning welded". It appears this should read "malfunctioning, welded". Page 20, line 4 contains the phrase "deactivates the or". It appears this should read "deactivates or". Page 20, line 5 contains the word "display". It appears this should be "displays".

Appropriate correction is required.

3. The disclosure is objected to under 37 CFR 1.71(a) because it is not sufficiently enabling.

Page 14, lines 11-12 state that surge suppressors 32, 34, and 36 interface with power control stage 18. Figure 1, however, shows no interface or connection between surge suppressors 32, 34, and 36, and power control stage 18. Surge suppressors 32, 34, and 36 interface with power supply stage 12. One of ordinary skill in the art would not be able to determine how surge suppressors 32, 34, and 36 are connected, and therefore could not make or use the system.

Page 19, lines 2-6 describe the surge suppressor 132 and voltage interface 134. It is not clear from the written description or Figure 5 how these are connected to or interface with the rest of the circuit. In addition, it is unclear how surge suppressor 132 is distinct from surge protectors 34 and 36, as they appear to perform the same function (see page 18, lines 6-8 and page 19, lines 2-6). One of ordinary skill in the art would be unable to determine how surge suppressor 132 and voltage interface 134 are interrelated with the rest of the circuit, and therefore could not make or use the system.

4. The disclosure is objected to under 37 CFR 1.71(a) because it does not contain a full written description of the invention.

The specification does not disclose the claimed invention. Claim 1 recites the limitation "said power supply stage includes ... a utility/generator switch arrangement to selectively direct the power from either the utility power source or the generator power source to the recreational vehicle". The power supply stage (19) described in the specification and illustrated in Figure 2 does not include a utility/generator switch. The only switch contained in the power supply stage is the feed-back optoisolator (68), which regulates the output stage (52). It does not switch between the utility and the generator. Both the utility and the generator are connected to the coach, as shown in Figure 2, but there is no switching arrangement to switch between them within the power supply stage. It appears that the utility/generator switch is interlock switch 28 (see Figure 1), which is not within the power supply stage (19).

Drawings

5. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: 26 in Figure 1. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

6. Claim 1 is objected to because of the following informalities: Claim 1, line 11 contains the phrase "levels, a load". It appears this should read "levels, and a load". Appropriate correction is required.

Allowable Subject Matter

7. Claim 1 is objected to but would be allowable if rewritten to correct the above objections.

8. The following is an examiner's statement of reasons for allowance: Claim 1 contains allowable subject matter because none of the prior art of record teaches or

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discloses a utility/generator switch arrangement within a power supply stage, and the control processor section monitoring all three of polarity, phase, and voltage levels, in combination with the remaining claimed features.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US patents to Bhattacharya (5,055,702), Koenig et al.

(6,965,818), and Eaton et al. (6,980,911) disclose similar systems.

10. This application is in condition for allowance except for the following formal matters:

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

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The specification does not disclose the claimed invention. Claim 1 recites the limitation "said power supply stage includes ... a utility/generator switch arrangement to selectively direct the power from either the utility power source or the generator power source to the recreational vehicle". The power supply stage (19) described in the specification and illustrated in Figure 2 does not include a utility/generator switch. The only switch contained in the power supply stage is the feed-back optoisolator (68), which regulates the output stage (52). It does not switch between the utility and the generator. Both the utility and the generator are connected to the coach, as shown in Figure 2, but there is no switching arrangement to switch between them within the power supply stage. It appears that the utility/generator switch is interlock switch 28 (see Figure 1), which is not within the power supply stage (19).

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: 26 in Figure 1.

Claim 1, line 11 contains the phrase "levels, a load". It appears this should read "levels, and a load". Appropriate correction is required.

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Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hal I. Kaplan whose telephone number is 571-272-8587. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sircus can be reached on 571-272-2800 x36. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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SUPERVISORY PATENT EXAMINER
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